

LEGEND

- ① W6X25 WITH 2 - 3/4" X 2 1/2" VERTICAL SLOTS ON ONE SIDE OF POST FLANGE FOR BOLT NO. 7. CUT BOTTOM OF POST TO ANGLE SHOWN. PLACE POSTS VERTICAL AND NORMAL TO GRADE LINE.
- ② C8 X 11.5 WITH 1/16" DIA. HOLES, ATTACH TO NO. 1 WITH BOLTS NO. 8. ATTACH CONTINUOUSLY TO A MIN. OF FOUR POSTS AND A MAX. OF EIGHT POSTS.
- ③ BASE PLATE 1" X 1'-0 1/2" X 1'-0 1/2" WITH 1/16" X 1 1/2" SLOTTED HOLES FOR ANCHOR BARS NO. 4. WELD TO NO. 1 AS SHOWN.
- ④ 7/8" DIA. CONCRETE MASONRY ANCHOR TYPE "S" (EPOXY) WITH STD. WASHER AND SLEEVE NUT HAVING MIN. PULLOUT CAPACITY OF 30 KIPS. 8" MIN. EMBEDMENT. 4 PER POST REQUIRED.
- ⑤ CORRUGATED SHEET BEAM CONFORMING TO A.A.S.H.T.O. DESIGNATION M180, CLASS A, TYPE 2. "THRIE" BEAM MAY BE USED IN LIEU OF THE DOUBLE PLATE BEAM AS SHOWN. ATTACH TO NO. 1 WITH BOLTS NO. 7.
- ⑥ 1 3/4" X 3" MOUNTING BOLT WASHER, EIGHT GAGE, GALVANIZED.
- ⑦ 5/8" DIA. BUTTON HEAD RAIL MOUNTING BOLT WITH ROUND WASHER AND NUT. 2 PER POST REQ'D.
- ⑧ 5/8" DIA. X 2" LONG HEX BOLTS WITH NUT AND TWO WASHERS EACH. 4 REQ'D. PER POST CONNECTION, 8 REQ'D. PER SPLICE.
- ⑨ PLATE 1/2" X 5 3/4" X 6" WITH 1/4" DIA. HOLES FOR BOLTS NO. 8. WELD TO NO. 1 AS SHOWN.
- ⑩ PLATE 1/2" X 5 3/4" X 1'-2 1/2" WITH 1/4" DIA. HOLES FOR BOLTS NO. 8. WELD TO NO. 1 AS SHOWN.
- ⑪ PLATE 1/2" X 5 3/4" X 1 1/2" WITH 1/4" DIA. HOLES FOR BOLTS NO. 8. WELD TO NO. 1 AS SHOWN.

GENERAL NOTES

BID ITEM SHALL BE "STEEL RAILING, TYPE W, MODIFIED" WHICH SHALL INCLUDE ALL ITEMS BETWEEN LONGIT. LIMITS OF NO. 5 SHOWN IN ELEVATION.

POST BASE PLATES, NO. 3 SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ALL MATERIAL, EXCEPT ANCHORAGE DETAIL (NO. 4) SHALL BE GALVANIZED AFTER FABRICATION.

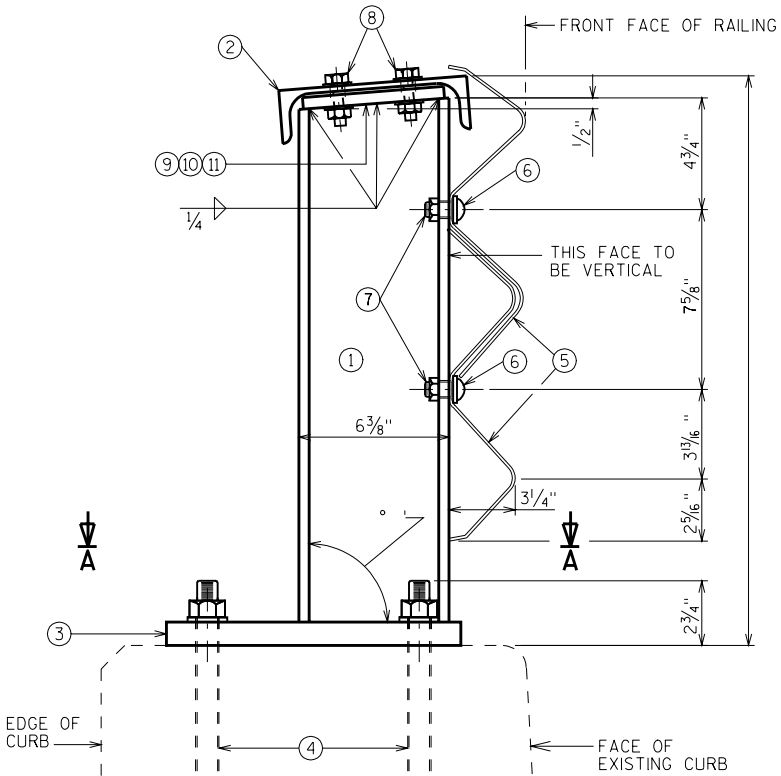
FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 3 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ALL MATERIALS USED IN FABRICATION SHALL BE MADE FROM MATERIALS CONFORMING TO A.S.T.M. DESIGNATION A709, GRADE 36 UNLESS NOTED OTHERWISE.

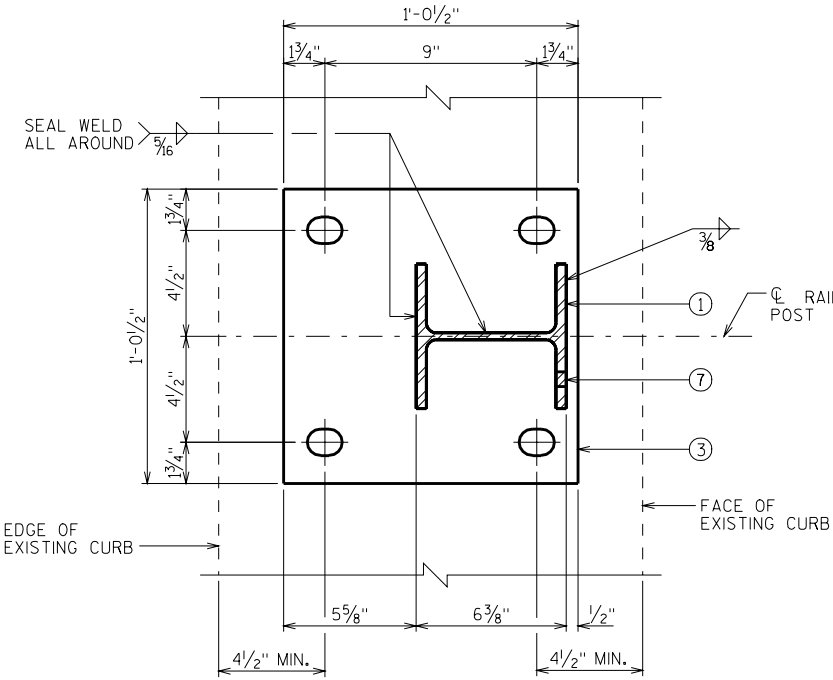
SHIM PLATES 6" X 1/16" X 1'-0 1/2" MAY BE USED BETWEEN TOP OF POST AND CHANNEL MEMBER TO ACHIEVE VERTICAL ALIGNMENT.

PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & CHANNELS SHALL BE GIVEN A NO. 6 COMMERCIAL BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.

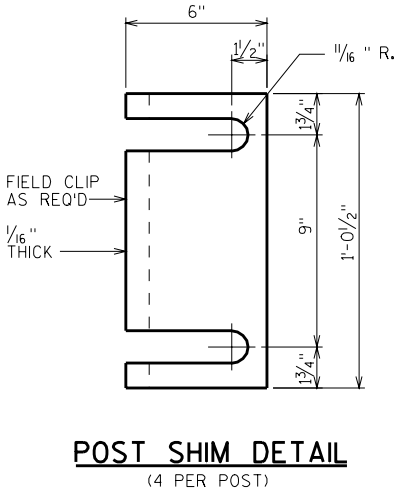
RAIL MEMBERS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC. AND THE UPPER RAIL SHALL LAP THE LOWER RAIL.



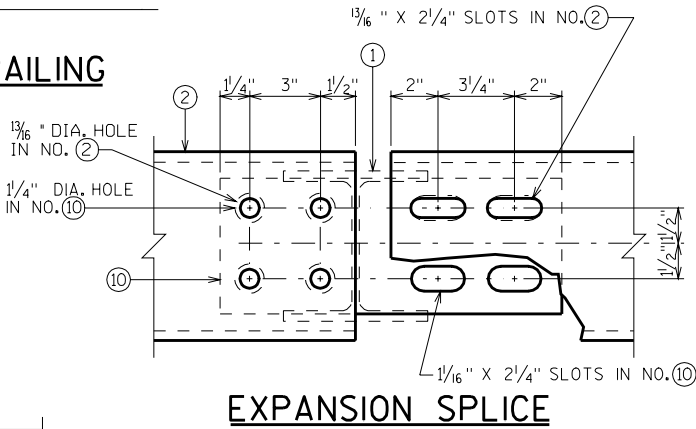
SECTION THRU RAILING



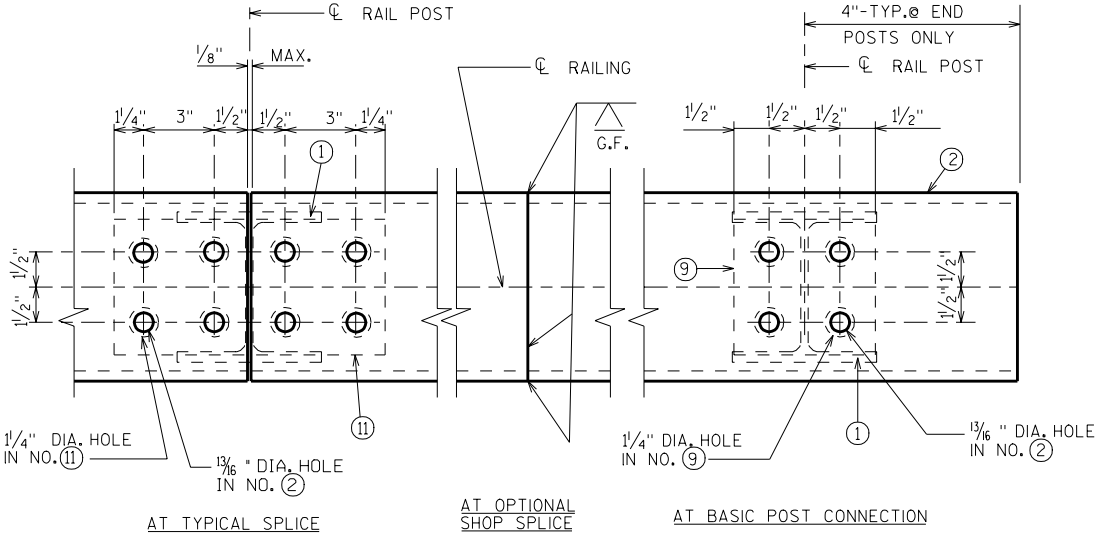
SECTION A-A



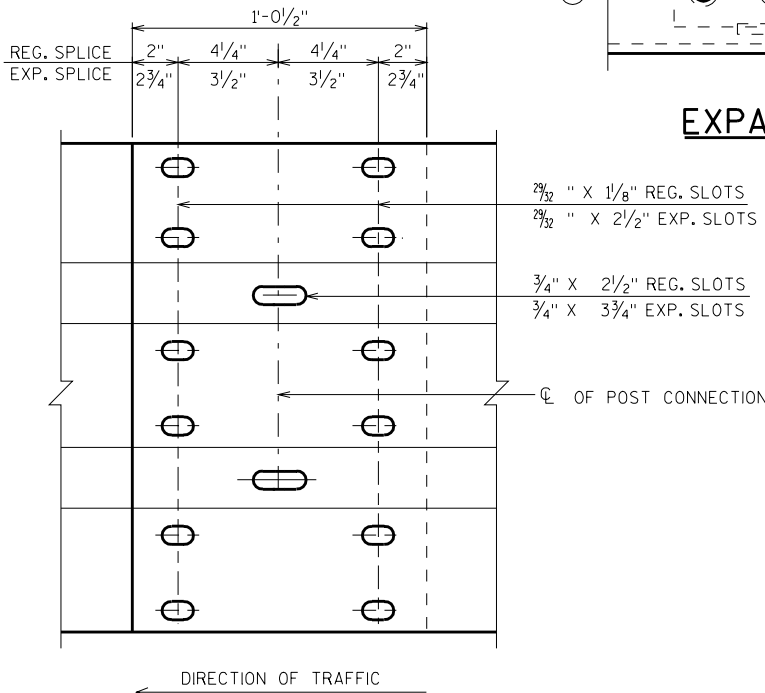
POST SHIM DETAIL
(4 PER POST)



EXPANSION SPLICE



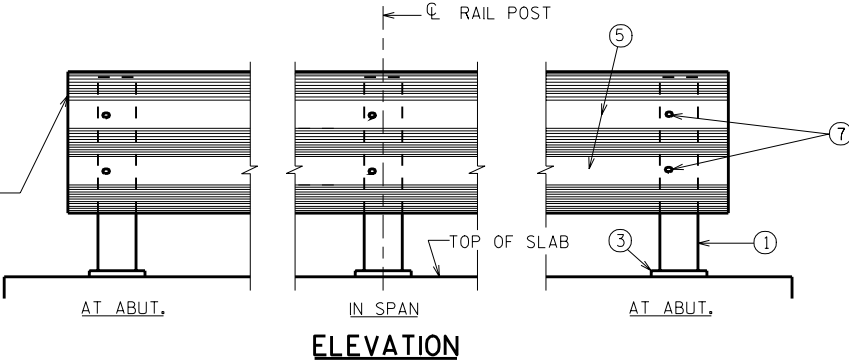
CHANNEL MEMBER DETAILS



RAIL MEMBER SPLICE

5/8" DIA. BUTTON HEAD OVAL SHOULDER BOLTS WITH HEX NUTS AT ALL SLOTS.

AT END POSTS, RAIL MEMBER SHALL HAVE PROVISIONS FOR A SPLICE TO A "W"-THRIE BEAM TRANSITION SECTION



ELEVATION

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE			
CONST. SPEC.	1996	DRAWN BY	PLANS CK'D.
MODIFIED W RAIL			SHEET